



regulators.

Cite No. 1.

#### JP63167677A2: CONTROL SYSTEM FOR NO-INTERRUPTION POWER SOURCE

**PURPOSE:** To improve transient response property by extracting a deviation of the output voltages of an inverter through a voltage feedback circuit having an RC filter, and inputting it to a PI regulator.

**CONSTITUTION:** A no-interruption power source is composed of a DC power source 2 connected to a commercial AC power source for supplying a DC power as a no-interruption power, in inverter 3, an output filter 4, a voltage feedback circuit 5, a reference sine wave generator 6, a PI regulator 7, and a PWM controller 8. In this case, since the output voltage of the inverter 3 is of a PWM wave a feedback cannot be directly applied. Accordingly, a switching frequency is filtered by a voltage feedback circuit 5 forming a low pass filter with RC to demodulate and output the PWM wave. Thus, the PI regulator 7 integrates a deviation together with a reference sine wave signal, outputs a PWM controller 8, thereby controls the output voltage of the inverter 3 so to become a constant voltage.